Note that the requests shown in Figure 5-9 all include the Max-Forwards header field. This header should be included in all requests to ensure that a given request does not traverse too many proxies. The value of Max-Forwards is decremented at each proxy in the chain between requester and responder. Seventy is the recommended initial value for Max-Forwards. We discuss proxy servers later in this chapter.

Termination of a Call

A user agent that wants to terminate a call does so through the issuance of a BYE request. Any party to a call can issue this request. Upon receipt of a BYE request, the recipient of the request should immediately stop transmitting all media directed at the party who has issued the BYE request.

Figure 5-10 shows a call termination corresponding to the call origination shown in Figure 5-9. As can be seen, the BYE request from Daniel has many of the same header values as in the original INVITE request, with the important exception that the CSeq has been changed to reflect the BYE request, as opposed to the INVITE request. As with any successfully completed request (besides ACK), a 200 response is returned.

Figure 5-10
Call termination

Daniel<sip:Collins@work.com>

Boss<sip:Manager@station2.work.com>

a

```
BYE sip:manager@work.com SIP/2.0
Via: SIP/2.0/UDP station1.work.com;branch=z9hG4bK123
Max-Forwards: 70
From: Daniel<sip:Collins@work.com>; tag=44551
To: Boss<sip:Manager@station2.work.com>; tag=11222
Call-ID: 123456@station1.work.com
CSeq: 2 BYE
Content-Length: 0
```

b

```
SIP/2.0 200 OK
Via: SIP/2.0/UDP station1.work.com;branch=z9hG4bK123
From: Daniel<sip:Collins@work.com>; tag=44551
To: Boss<sip:Manager@station2.work.com>;tag=11222
Call-ID: 123456@station1.work.com
CSeq: 2 BYE
Content-Length: 0
```